

IN THE CLAIMS:

These claims will replace all prior versions of claims in the present application.

1-6. (Canceled)

7. (Original) A reactor for generating moisture, having an inlet side and an outlet side, comprising:

a first reactor structural component on the inlet side of the reactor having an outside wall;

a second reactor structural component on the outlet side of the reactor having an outside wall, wherein the first and second components are mated for form a reactor shell having an interior space;

a material gas supply passage provided in the first reactor structural component disposed to supply material gases into the interior space;

a material gas supply joint connected to the material gas supply passage;

a moisture gas outlet passage provided in the second reactor structural component to lead out moisture from the interior space;

a moisture gas take-out joint connected to the moisture gas outlet passage;

fin base plates attached to the outside walls of the first and second components; and

a plurality of fins disposed on the fin base plates.

8. (Original) A reactor for generating moisture according to claim 7, further comprising: a heater disposed on the outside wall of the second component, and a heater pressing plate disposed on an outside of the heater, wherein the fin base plate is attached to an outside of the heater pressing plate.

9. (Original) A reactor for generating moisture according to claim 7 wherein said heat dissipation fins are disposed symmetrically about the material gas supply joint.

10. (Original) A reactor for generating moisture according to claim 8 wherein said heat dissipation fins are disposed symmetrically about the material gas supply joint.
11. (Original) A reactor for generating moisture according to claim 7 wherein said heat dissipation fins are disposed symmetrically about the moisture gas take-out joint.
12. (Original) A reactor for generating moisture according to claim 8 wherein said heat dissipation fins are disposed symmetrically about the moisture gas take-out joint.
13. (Original) A reactor for generating moisture according to claim 9, wherein said fins are axially symmetrical about said material gas supply joint.
14. (Original) A reactor for generating moisture according to claim 10, wherein said fins are axially symmetrical about said material gas supply joint.
15. (Original) A reactor for generating moisture according to claim 9, wherein said fins are axially symmetrical about said moisture take-out joint.
16. (Original) A reactor for generating moisture according to claim 10, wherein said fins are axially symmetrical about said moisture take-out joint.
17. (Original) A reactor for generating moisture according to claim 9, wherein said fins are centrally symmetrical about said moisture take-out joint.
18. (Original) A reactor for generating moisture according to claim 10, wherein said fins are centrally symmetrical about said moisture take-out joint.
19. (Original) A reactor for generating moisture according to claim 7, wherein said heat dissipation fins comprise surfaces treated with alumite.
20. (Original) A reactor for generating moisture according to claim 8, wherein said heat dissipation fins comprise surfaces treated with alumite.